**3GPP TSG-CT WG1 Meeting #141eC1-232140**

**Online 17– 21 April 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | , Ericsson | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | UAS\_Ph2 | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Clause 4.3.3 in 3GPP TS 23.256 states the following:  - *a UAV that is configured for UAS services may support the following functions:*  *- reports the A2X Capability and PC5 Capability for A2X (i.e. LTE PC5 and/or NR PC5) to 5GC over N1 reference point.*  *- indicates A2X Policy Provisioning Request in UE Policy Container for UE triggered A2X Policy provisioning.*  - *receives the A2X parameters from 5GC over N1 reference point*.  The above indicates that there is a need to define UE policies for A2X policy in 3GPP TS 24.577 and 3GPP TS 24.578 and to have reference for A2X policy in 3GPP TS 24.526. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. Add 3GPP TS 24.577 and 3GPP TS 24.578 in the “References”. 2. Specify that UE policies for A2X policy are specified in 3GPP TS 24.578. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Reference to UE policies for A2X policy is missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 3.2, 4.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\*\*\* First change \*\*\*\*\*

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.503: " Policy and Charging Control Framework for the 5G System; Stage 2".

[3] 3GPP TS 24.502: "Access to the 3GPP 5G Core Network (5GCN) via Non-3GPP Access Networks (N3AN); Stage 3".

[4] 3GPP TS 23.003: "Numbering, addressing and identification".

[5] 3GPP TS 25.331: "Radio Resource Control (RRC); Protocol Specification".

[6] Void

[6A] 3GPP TS 36.413: "Evolved Universal Terrestrial Radio Access (E-UTRA); S1 Application Protocol (S1AP)".

[7] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".

[8] IEEE Std 802.11™-2016: "Information Technology- Telecommunications and information exchange between systems-Local and metropolitan area networks-Specific requirements-Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications".

[9] Wi-Fi Alliance: "Hotspot 2.0 (Release 2) Technical Specification, version 1.0.0", 2014-08-08.

[10] ITU-T Recommendation E.212: "The international identification plan for public networks and subscriptions", 2016-09-23.

[11] 3GPP TS 24.501: "Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3".

[12] IETF RFC 1035: "Domain names - implementation and specification".

[13] ISO 8601:2004: "Data elements and interchange formats -- Information interchange -- Representation of dates and times".

[14] 3GPP TS 38.413: "NG-RAN; NG Application Protocol (NGAP)".

[15] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[16] IETF RFC 4122: "A Universally Unique IDentifier (UUID) URN Namespace".

[17] IETF RFC 5905: "Network Time Protocol Version 4: Protocol and Algorithms Specification".

[18] 3GPP TS 24.588: "Vehicle-to-Everything (V2X) services in 5G System (5GS); User Equipment (UE) policies; Stage 3".

[18A] 3GPP TS 24.555: "Proximity-services (ProSe) in 5G System (5GS); User Equipment (UE) policies; Stage 3".

[19] IEEE 1003.1-2004, Part 1: Base Definitions.

[20] IEEE Std 802.1Q-2018: "IEEE Standard for Local and metropolitan area networks--Bridges and Bridged Networks".

[21] 3GPP TS 24.554: "Proximity-services (ProSe) in 5G System (5GS) protocol aspects; Stage 3".

[22] 3GPP TS 24.193: "Access Traffic Steering, Switching and Splitting; Stage 3".

[YY] 3GPP TS 24.578: "Aircraft-to-Everything (A2X) services in 5G System (5GS); UE policies".

\*\*\*\*\* Next change \*\*\*\*\*

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

5GCN 5G Core Network

5GS 5G System

A2XP A2X Policy

ANDSP Access Network Discovery and Selection Policy

DNN Data Network Name

ePDG evolved Packet Data Gateway

FQDN Fully Qualified Domain Name

H-PCF A PCF in the HPLMN

IMS IP Multimedia Subsystem

LADN Local Area Data Network

MCC Mobile Country Code

ME Mobile Equipment

MMS Multimedia Messaging Service

MNC Mobile Network Code

N3AN Non-3GPP Access Network

N3IWF Non-3GPP InterWorking Function

OS Operating System

PCF Policy Control Function

ProSeP 5G ProSe Policy

RSN Redundancy Sequence Number

S-NSSAI Single Network Slice Selection Assistance Information

SSC Session and Service Continuity

SUPI Subscriber Permanent Identifier

SUPL Secure User Plane Location

TNAN Trusted Non-3GPP Access Network

TNGF Trusted Non-3GPP Gateway Function

URSP UE Route Selection Policy

USIM User Services Identity Module

V-PCF A PCF in the VPLMN

V2XP V2X Policy

WLANSP WLAN Selection Policy

\*\*\*\*\* Next change \*\*\*\*\*

## 4.1 Overview

The UE policies for 5GS include:

- UE route selection policy (URSP)(see clause 4.2);

- Access network discovery and selection policy (ANDSP)(see clause 4.3);

- V2X policy (V2XP);

- 5G ProSe policy (ProSeP); and

- A2X policy (A2XP);

The UE policies can be delivered from the PCF to the UE. The UE policy delivery procedure is specified in 3GPP TS 24.501 [11].

The UE policies can also be pre-configured in the UE. The pre-configured policy shall be applied by the UE only when the UE has not received the same type of policy from the PCF. The implementation of pre-configured UE policies is out of scope of this specification.

The UE policies can be delivered from the PCF to the 5G-RG or a W-AGF acting on behalf of the FN-RG. The UE policy delivery service is specified in 3GPP TS 24.501 [11]. These UE policies include the UE route selection policy (URSP) (see clause 4.2).

The UE policies can also be pre-configured in the 5G-RG or a W-AGF acting on behalf of the FN-RG. The pre-configured policy shall be applied by the 5G-RG or a W-AGF acting on behalf of the FN-RG only when the 5G-RG or a W-AGF acting on behalf of the FN-RG has not received the same type of policy from the PCF. The implementation of pre-configured UE policies is out of scope of this specification.

The UE policies for V2X (V2XP) are specified in 3GPP TS 24.588 [18].

The UE policies for 5G ProSe policy (ProSeP) are specified in 3GPP TS 24.555 [18A].

The UE policies for A2X (A2XP) are specified in 3GPP TS 24.578 [YY].

\*\*\*\*\* End of changes \*\*\*\*\*